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Sequence Listing was accepted.

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217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=3; day=10; hr=15; min=16; sec=21; ms=274; ]

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Application No: 10593119

Version No: 1.0

Input Set:

Output Set:

Started: 2008-02-26 17:58:48.956

Finished: 2008-02-26 17:58:51.598

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 642 ms

Total Warnings: 68

Total Errors: 0

No. of SeqIDs Defined: 68

Actual SeqID Count: 68

| Error code | Error Description                                   |
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| W 213      | Artificial or Unknown found in <213> in SEQ ID (2)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (3)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (4)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (5)  |
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| W 213      | Artificial or Unknown found in <213> in SEQ ID (10) |
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| W 213      | Artificial or Unknown found in <213> in SEQ ID (12) |
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| W 213      | Artificial or Unknown found in <213> in SEQ ID (14) |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (15) |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (16) |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (17) |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (18) |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (19) |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (20) |

**Input Set:**

**Output Set:**

**Started:** 2008-02-26 17:58:48.956  
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**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 642 ms  
**Total Warnings:** 68  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 68  
**Actual SeqID Count:** 68

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

## Sequence Listing

<110> Schulze, Renate  
Lorenz, Patrick  
Eck, Jurgen  
May, Oliver  
Groger, Harald  
Trauthwein, Harald

<120> Novel Alcohol Dehydrogenases

<130> 7601/88256

<140> 10593119

<141> 2008-02-26

<150> 11/593,119

<151> 2006-09-18

<160> 68

<170> PatentIn version 3.1

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ZF0050197= *Pseudomonas oleovorans*; ZF0050294= *Rhodococcus*; ZF0050330=  
*Bacillus*; ZF0051303= *Bacterium*; ZF0051337= *Methylobacter*; ZF0051321=  
*Bacterium*; ZF0050782= *Lactobacillus bulgaricus*;

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<223> ZF0050544= *Phyllobacterium rubiacearum*; ZF0002852= *Rhodococcus*;  
ZF0050310= *Arthrobacter paraffineus*; ZF0002862= *Streptomyces*  
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ZF0002349= *Streptomyces spectabilis*; ZF0002434= *Streptomyces*;

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*Kocuria*; ZF0002018= *Streptomyces*; ZF0003767= *Actinomyces*; ZF0002332=  
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Asn Tyr Cys Ser Arg Ala Gln Glu Leu Gly Ile Asn Pro Pro Gly Leu  
20 25 30

Gly Ala Pro Gly Ala Leu Ala Glu Phe Met Ile Val Asp Ser Pro Arg  
35 40 45

His Leu Val Pro Ile Gly Asp Leu Asp Pro Val Lys Thr Val Pro Leu  
50 55 60

Thr Asp Ala Gly Leu Thr Pro Tyr His Ala Ile Lys Arg Ser Leu Pro  
65 70 75 80

Lys Leu Arg Gly Gly Ser Tyr Ala Val Val Ile Gly Thr Gly Gly Leu  
85 90 95

Gly His Val Ala Ile Gln Leu Leu Arg His Leu Ser Ala Ser Thr Val  
100 105 110

Ile Ala Leu Asp Val Ser Ala Asp Lys Leu Glu Leu Ala Thr Lys Val  
115 120 125

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Asn Tyr Cys Ser Arg Ala Gln Glu Leu Gly Ile Asn Pro Pro Gly Leu  
20 25 30

Gly Ala Pro Gly Ala Leu Ala Glu Phe Met Ile Val Asp Ser Pro Arg  
35 40 45

His Leu Val Pro Ile Gly Asp Leu Asp Pro Val Lys Thr Val Pro Leu  
50 55 60

Thr Asp Ala Gly Leu Thr Pro Tyr His Ala Ile Lys Arg Ser Leu Pro  
65 70 75 80

Lys Leu Arg Gly Gly Ser Tyr Ala Val Val Ile Gly Thr Gly Gly Leu  
85 90 95

Gly His Val Thr Ile Gln Leu Leu Arg His Leu Ser Ala Ala Thr Val  
100 105 110

Ile Ala Leu Asp Val Ser Ala Asp Lys Leu Glu Leu Ala Thr Lys Val  
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20 25 30

Gly Ala Pro Gly Ala Ile Ala Glu Tyr Met Ile Val Asp Ser Pro Arg  
35 40 45

His Leu Val Pro Ile Gly Asp Leu Asp Pro Val Thr Thr Val Pro Leu  
50 55 60

Thr Asp Ala Gly Leu Thr Pro Tyr His Ala Ile Lys Arg Ser Leu Gly  
65 70 75 80

Lys Leu Arg Ala Gly Ser Tyr Ala Val Val Ile Gly Thr Gly Gly Leu  
85 90 95

Gly His Val Gly Ile Gln Leu Leu Arg His Leu Ser Pro Ala Arg Ile  
100 105 110

Ile Ala Leu Asp Val Asn Asp Glu Lys Leu Ala Phe Ala Arg Glu Val  
115 120 125

Gly Ala His Glu Thr Val Leu Ser Asn Ala Asp Ala Ala Ala Asn Val  
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Gly Tyr

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20 25 30

Gly Ala Pro Gly Ala Leu Ala Glu Phe Met Ile Val Asp Ser Pro Arg  
35 40 45

His Leu Val Pro Ile Gly Asp Leu Asp Pro Val Lys Thr Val Pro Leu  
50 55 60

Thr Asp Ala Gly Leu Thr Pro Tyr His Ala Ile Lys Arg Ser Leu Pro  
65 70 75 80

Lys Leu Arg Gly Gly Ala Tyr Ala Val Val Ile Gly Thr Gly Gly Leu  
85 90 95

Gly His Val Ala Ile Gln Leu Leu Arg His Leu Ser Ala Ala Thr Val  
100 105 110

Ile Ala Leu Asp Val Ser Ala Asp Lys Leu Val Leu Ala Thr Lys Val  
115 120 125

Gly Ala His Glu Val Val Leu Ser Asp Lys Asp Ala Ala Glu Asn Val  
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Arg Arg Ile Thr Gly Ser Gln Gly Ala Ala Leu Val Leu Asp Phe Val  
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<212> PRT

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ZF0004209= Actinomadura; ZF0004214= Actinomyces; ZF0003871=  
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<223> ZF0006405= Streptomyces; ZF0003865= Actinomadura; ZF0004047=  
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ZF0004217= Actinomyces; ZF0004089= Actinomadura; ZF0004090=  
Actinomadura; ZF0006138= Streptomyces; ZF0004236= Actinomadura;

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Asn Tyr Cys Leu Arg Ala Lys Glu Leu Gly Ile Ala Pro Pro Gly Leu  
20 25 30

Gly Ser Pro Gly Ala Met Ala Glu Tyr Met Ile Val Asp Asp Pro Arg  
35 40 45

His Leu Val Pro Leu Gly Gly Leu Asp Pro Val Gln Ala Val Pro Leu  
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Thr Asp Ala Gly Leu Thr  
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Phyllobacterium rubiacearum; ZF0002031= Streptomyces; ZF0002349=  
Streptomyces spectabilis; ZF0002434= Streptomyces; ZF0050993= Kocuria;

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<223> ZF0002018= Streptomyces; ZF0003767= Actinomyces; ZF0003764=  
Streptomyces; ZF0002331= Actinoplanes philippinensis; ZF0002441=  
Streptomyces; ZF0051307= Bacterium; ZF0051301= Bacterium; ZF0051240=  
Bacterium; ZF0002333= Rhodococcus erythropolis;

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<223> ZF0003713= Micromonospora; ZF0004980= Streptomyces; ZF0004821=  
Actinomyces; ZF0002359= Actinoplanes ianthinogenes; ZF0002396=  
Actinoplanes; ZF0003781= Actinomyces; ZF0003512= Actinomyces;  
ZF0006093= Streptomyces; ZF0006103= Streptomyces;

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<223> ZF0006087= Streptomyces; ZF0050446= Bacterium; ZF0050445= Bacterium;  
ZF0006086= Streptomyces; ZF0002322= Rhodococcus; ZF0003538=  
Actinomyces; ZF0003535= Actinomyces;

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20 25 30

Gly Pro Glu Val Lys Gly Leu Glu Val Gly Asp His Val Val Leu Ser  
35 40 45

Phe Ile Pro Ala Cys Gly Thr Cys Pro Ala Cys Ser Ala Gly His Gln  
50 55 60

Asn Leu Cys Asp Leu Gly Met Gly Leu Leu Ser Gly Gln Ala Ile Ser  
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Asp Gly Thr Tyr Arg Ile Gln Ala Arg Gly Glu Asn Val Ile  
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Bacterium; ZF0002333= Rhodococcus erythropolis;

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Actinomyces; ZF0002359= Actinoplanes ianthinogenes; ZF0002396=  
Actinoplanes; ZF0003781= Actinomyces; ZF0003512= Actinomyces;  
ZF0006093= Streptomyces; ZF0006103= Streptomyces;

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ZF0006086= Streptomyces; ZF0002322= Rhodococcus; ZF0003538=  
Actinomyces; ZF0003535= Actinomyces;

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20 25 30

Pro Gly Val Arg Asp Val Glu Val Gly Asp His Val Val Leu Ser Phe  
35 40 45

Ile Pro Ser Cys Gly Arg Cys Arg Trp Cys Ala Val Gly Gln Ser Asn  
50 55 60

Leu Cys Asp Leu Gly Ala Ile Leu Met Ala Gly Ala Gln Val Asp Gly  
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Streptomyces spectabilis; ZF0002434= Streptomyces; ZF0050993= Kocuria;

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Bacterium; ZF0002333= Rhodococcus erythropolis;

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ZF0006086= Streptomyces; ZF0002322= Rhodococcus; ZF0003538=  
Actinomyces; ZF0003535= Actinomyces;

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20 25 30

Pro Gly Val Arg Asp Val Glu Val Gly Asp His Val Val Leu Ser Phe

Ile Pro Ser Cys Gly Arg Cys Arg Trp Cys Ala Val Gly Gln Ser Asn  
 50 55 60

Leu Cys Asp Leu Gly Ala Ile Leu Met Ala Gly Ala Gln Val Asp Gly  
 65 70 75 80

Thr Tyr Arg Ala Thr Ala Arg Gly His Asp Val Gly  
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20 25 30

Pro Gly Val Arg Asp Val Glu Val Gly Asp His Val Val Leu Ser Phe  
35 40 45

Ile Pro Ser Cys Gly Arg Cys Arg Trp Cys Ala Val Gly Gln Ser Asn  
50 55 60

Leu Cys Asp Leu Gly Ala Ile Leu Met Ala Gly Ala Gln Val Asp Gly  
65 70 75 80

Thr Tyr Arg Ala Thr Ala Arg Gly His Asp Val Gly  
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ZF0006093= Streptomyces; ZF0006103= Streptomyces;

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